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Figure 1

	1				50
Mur. tbc1	MPMLPWVVAE	VRRLSGQCSK	KEPRTKQVRL	WVSPSGLRCE	PDLEKSQPWD
TBC-1	mpmlpwvvae	vrrlsrqstr	kepvtkqvrl	cvspsglrce	pepgrsqqwd
dmu50542	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~
celf35h12	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~
Consensus	-----	-----	-----	-----	-----
	51				100
Mur. tbc1	PLICSSIFEC	KPQRVHKLIH	NSHDPSYFAC	LIKEDAAHRQ	SLCYVFKADD
TBC-1	pliyssifec	kpqrvhklih	nshdpsyfac	likedayhrq	sicyvfkadd
dmu50542	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~
celf35h12	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~
Consensus	-----	-----	-----	-----	-----
	101				150
Mur. tbc1	QTKVPEIISS	IRQAGKIARQ	EELRCPSEFD	DTFAKKFEVL	FCGRVTVAHK
TBC-1	qtkvpeiiss	irqagkiarq	eelhcpsefd	dtfskkfevl	fcgrvtvahk
dmu50542	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~
celf35h12	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~
Consensus	-----	-----	-----	-----	-----
	151				200
Mur. tbc1	KAPPALIDEC	IEKFNVHSCG	RRTDWEAPTG	Q.....PSA	PGPRPMRKSF
TBC-1	kappalidec	iekfnhvsgr	ggprapaptr	pmprrpqwsq	pvrprmrksf
dmu50542	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~
celf35h12	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~
Consensus	-----	-----	-----	-----	-----
	201				250
Mur. tbc1	SQPGLRSLAF	RKEFQDASLR	SS.TFSSF.D	NDIENHLIGG	HNVVQPTDME
TBC-1	sqpglrslaf	rkelqdgggr	ssgffssfee	sdienhligg	hnivqptdie
dmu50542	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~
celf35h12	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~
Consensus	-----	-----	-----	-----	-----
	251				300
Mur. tbc1	ENRTMLFTIG	PSEVYLISPD	TKKIALEKNF	KEISFCSQGI	RHVDHFGFIC
TBC-1	enrtmlftig	qsevyllispd	tkkialekknf	keisfcsqgi	rhvdhfgfic
dmu50542	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~
celf35h12	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~
Consensus	-----	-----	-----	-----	-----
	301				350
Mur. tbc1	RECSGGGSGG	FHFVCYVFQC	TNEALVDEIM	MTLKQAFTVA	AVQQTAKA.P
TBC-1	ressgg.gg	fhfvcyvfqc	tnealvdeim	mtlkqaftva	avqqtaka.p
dmu50542	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~
celf35h12	MEDFKDFTEV	TQFTNVQYLG	CSQLVNNDND	NEMKALMKVL	DEQKGAQTIN
Consensus	-E-----	--F-----	-----	---K---V-	--Q--A----

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Figure 1 (Continued I)

	351				400
Mur. tbc1	AQLCEGCPLQ	GLHKLCERIE	GMNSSSKTKLE	LQKHLTTLTN	QEATIFEEV
TBC-1	aqlcegcplq	slhklcerie	gmsssktkle	lqkhlttlttn	qeqatifeev
dmu50542	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~
celf35h12	VTLVVPHNIS	GTVKLIDAQG	KVLSSFSLVN	IRFCIRGESE	TSQNNCF.GI
Consensus	--L-----	---KL-----	---SS-----	-----	--Q---F---
	401				450
Mur. tbc1	QKLPRNEQR	ENELIISFLR	CLYEEKQKEH	SHTGAPKQTL	QVAAENIGSD
TBC-1	qklprneqr	eneliisflr	clyeekqkeh	ihigemkqts	qmaaenigse
dmu50542	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~
celf35h12	SFTHKISVGE	HNSSDILHQC	HVFRTSKAET	AAKALYSFSY	AFSNKNVSSE
Consensus	-----	-N---I----	-----E-	-----	-----N--S-
	451				500
Mur. tbc1	LPPSASRFR	DSLKNRAKRS	LTESLESILS	RGNKARGLQD	HSASVDLDSS
TBC-1	lppsatrfrl	dmlknkakrs	lteslesils	rgnkarrlqe	hsisvldss
dmu50542	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~
celf35h12	SNRLEFQFES	ILEVKENDGT	VEKPSWKLC	QHNGVFKVRR	DREKKIVVQL
Consensus	-----F--	-----	-----	--N-----	-----
	501				550
Mur. tbc1	TSSTLSNTSK	ELSMGDKEAF	PVSETSFKLL	GSSDDLSSDS	EGHIAEESAL
TBC-1	lsstlsntsk	epsvcekeaf	pisessfkl	gssedlssds	eshlpeepap
dmu50542	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~
celf35h12	RQVARKKTID	GFLNLIKCF	GMLLAAGRNL	RHSDLQLLEM	DRNATGTDSA
Consensus	-----T--	-----K--F	-----L	--S-----	-----
	551				600
Mur. tbc1	LSPQQAFFFF	ANTLSHFPVE	CPAPPEPAQS	SPGVSQRKLM	RYHSVSTETP
TBC-1	lspqqafrrr	antlshfpie	cqepqparg	spgvsqrklm	ryhsvstetp
dmu50542	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~
celf35h12	VFVIEA..NW	DPRVHMFV	NTETPRDTRV	FMTVAIDVIV	SEISEPIRFS
Consensus	-----A----	-----F----	-----P----	---V-----	---S-----
	601				650
Mur. tbc1	HERKDFESKA	NHLGDTDGTP	VKTRRHWSRQ	QIFLRVATPQ	KACDSPSRYE
TBC-1	herkdfeska	nhlgdsggtp	vktrshswrq	qiflrvatpq	kacdssrye
dmu50542	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~
celf35h12	MEAMSRVFHE	HERFYKTPQT	VVSEEFVL	EVRIKTEKLL	ETHGNMMLLS
Consensus	-E-----	-----V-----	-----R-----	-----	-----
	651				700
Mur. tbc1	DYSELGELPP	RSPLEPVCE	GPFGQYRK	GRRHASFESC	GKRPSCSRSC
TBC-1	dyselgelpp	rsplepvced	gpfpqhqrkr	kghlvssesc	akrlffnryc
dmu50542	~~~~~	~~~~~	~MRKPAKRG	KRDAAELREL	WRTAIRQTIM
celf35h12	VPIDFAWQLE	GVYFLPTPSK	SCDQSDPND	KLTFISLES	SDRKRSKQNL
Consensus	-----	-----P----	-----R	K----S-ES-	--R-----

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Figure 1 (Continued III)

	1051				1100
Mur. tbc1	DNQRMEKLEK	TNSTLRKQNL	DLL.EQLQVA	NARIQSLEAT	VEKLLTSESK
TBC-1	dnqrmdklek	tnsslrkqnl	dll.eqlqva	ngriqsleat	ieklssesk
dmu50542	TNHHLEMLNR	E...KTQNO	HLE.QQLQFA	QSSIAQLETT	RSSQQAQITT
celf35h12	NEDPVLMEK	EIGRHQANTL	RLERENDDLA	HELVTSKIEL	RRKLDVAEDQ
Consensus	-N-----LEK	-----QNL	-L--EQLQ-A	---I-SLE-T	--KL---E--
	1101				1150
Mur. tbc1	LKQRALTLEV	ERRPAADGGG	AAEAKRPAQH	SR.ARLHPAG	AHRRLTAAR.
TBC-1	lkqamltlel	ersallqtve	elrrrsaeps	drepectqpe	ptgd-----
dmu50542	LQSQVQSLEL	TIQTLGRYVG	QLVEHNP...	DLELPNEVRR	MLQQLDDLDR
celf35h12	IETSANAIER	LTRQNMDILE	E..NKNLMRE	YEQIKEMYRR	DVLRLEENGs
Consensus	L-----LE-	-----	-----	-----	---RL-----
	1151				1200
Mur. tbc1	RDCAPLTLsk	P-----	-----	-----	-----
TBC-1	-----	-----	-----	-----	-----
dmu50542	QRRKPIFTER	KIGKSVSVNS	HLGFPLKVLE	ELTERDELGS	PQKQKKEKTP
celf35h12	RAEKLLAEYK	KLFSERSKRA	ENEREHFEVQ	KKAIIRISD	CDKCWPVACE
Consensus	R-----	-----	-----	-----	-----
	1201				1250
Mur. tbc1	-----	-----	-----	-----	-----
TBC-1	-----	-----	-----	-----	-----
dmu50542	FFEQLRQQQQ	QHRLNGGGQS	SNVGESGSPT	PPSRPNRLLD	NASARTVMQV
celf35h12	.WEKNRSPVH	SASTPTGPD	LTKLEEREDH	IKNLEIDLAQ	TKLSLVEAEC
Consensus	-----	-----	-----	-----	-----
	1251				1300
Mur. tbc1	-----	-----	-----	-----	-----
TBC-1	-----	-----	-----	-----	-----
dmu50542	KLDELKLPFH	VDKFVANIKS	PLEVDSGVGT	PLSPPSTASN	SSGGSIFSRM
celf35h12	RNQDLTHQLM	AQSESDGKKW	FKKTITQLKE	VGSSLKHHER	SNSSVTPHFS
Consensus	-----	-----	-----	-----	-----
	1301				1350
Mur. tbc1	-----	-----	-----	-----	-----
TBC-1	-----	-----	-----	-----	-----
dmu50542	GYRTTPPALS	PLAQRQSYGV	AITTAPCPQH	MEEVAPATTM	AVMPQEDVEE
celf35h12	STFQLQMDHT	ETTTSNNGY	NSSSESFAVR	FMQTPSAVLK	ITNGEMTEDN
Consensus	-----	-----	-----	-----	-----
	1351				1400
Mur. tbc1	-----	-----	-----	-----	-----
TBC-1	-----	-----	-----	-----	-----
dmu50542	PQPMHPLSMV	GGDVNVRFKG	TTQLKSIRPV	HHMRAIPLGG	VQHPSSTEP
celf35h12	NNMLHGINGV	DLLDLQSTDN	DDQYSNSSL	ESRNSLTNHQ	GKAEDSTMVT
Consensus	-----	-----	-----	-----	-----

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Figure 1 (Continued IV)

	1401					1450
Mur. tbc1	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~
TBC-1	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~	~~~~~
dmu50542	VRVAPVPVEL	APPAATATTG	RS~~~~~	~~~~~	~~~~~	~~~~~
celf35h12	VNLDQLPARR	TLLKCLVLVV	FGKSYTKVIF	QMLRFSGFLM	RRGVYPGTLY	~~~~~
Consensus	-----	-----	-----	-----	-----	-----
	1451	1465				
Mur. tbc1	~~~~~	~~~~~				
TBC-1	~~~~~	~~~~~				
dmu50542	~~~~~	~~~~~				
celf35h12	FRRCSKILLK	KYDRI				
Consensus	-----	-----				

T09290"TE29"60